

### Amendments to the Specification

Please replace the title with the following amended title:

Method for Measuring the Rate of Cell Reproduction ~~Cancer Detection~~ By Analysis of  
Nanoliter Cell Samples

Please delete the following from page 1 lines 2,3, and 4:

#### Cross reference to related applications

This application is a continuation-in-part of S.N. 09/489,247, filed January 21, 2000, of Paul L. Gourley.

Please replace the following paragraphs in the specification with the amended paragraphs to correct typographical errors:

Please correct two typographical errors by replacing the following paragraph extending from page 9 line 1 to page 9 line 6:

A first test of this invention has been undertaken with cultured astrocyte cells. Normal human astrocyte (NHA) cells are star-shaped process-bearing cells distributed throughout the central nervous system. NHA cells constitute from 20 to 50% of the volume of most brain areas and come in two forms: protoplasmic ~~protoplasmic~~ and fibrous types, predominant in gray and white matter, respectively. Some of these cells serve as scaffolding for the migration of neurons and play a critical role in defining the cytoarchitecture ~~cytoarchitecture~~ of the central nervous system.

Please correct one typographical error by replacing the following paragraph extending from page 9 line 7 to page 9 line 12:

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Astrocytoma is a term given to tumors comprising astrocytes with a relatively well-differentiated histological appearance. Glioblastoma mutiforme (GBM) is a term given to tumors which are the least differentiated and most aggressive form of astrocytoma. It accounts for about 20% of all primary intracranial ~~intercranial~~ tumor cases. The studies described herein used cultured normal human astrocytes from gray matter and glioblastoma cells as representative cells from normal and cancerous tissue, respectively.

Please correct two typographical errors by replacing the following paragraph extending from page 12 line 3 to page 12 line 11:

The particular test discussed above is cited merely to illustrate a particular embodiment of this invention. It is contemplated that the use of the invention may involve many types of cancerous ~~cancereous~~ cells as long as the principle, using a biocavity laser to determine an increase in the percentage of G2 cells, is followed. Many techniques may be used to ~~determine the process~~ determine the information from the biocavity. For example, after a predetermined number of cells are tested, the number of cells that fall within a wavelength shift range where G2 cells are expected could be provided. Alternatively, histograms such as described herein could be plotted. It is intended that the scope of the invention be defined by the claims appended hereto.

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